Installation and environment variables

GUI is under development!!!

Simple Installation 1

- The latest sources can always be obtained from the CDAT website:

    http://sourceforge.net/projects/cdat

- At the time this course is written, the distributed version of CDAT is 4.0.

- Unless you know what you're doing we recommend that you obtain the `CDAT-4.0-everything.tar.gz` tarball.

Simple Installation 2

- Unpack the source:

  ```
  $ gunzip CDAT-4.0-everything.tar.gz
  $ tar xvf CDAT-4.0-everything.tar
  ```

- Enter directory:
  ```
  $ cd cdat-4.0
  ```

- Look at the `README.txt` file to see if your operating system requires you to set some environment variable before going any further.

Express and Custom Installation

- There are basically 2 ways to install CDAT, the "**express install**" or the "**custom install**".

- The express install will take care of everything for you – big installation!

- The custom install lets the user keep existing version of components and link CDAT with them.

Express Install

- Installs everything that CDAT needs on your system (including Python, Tcl/Tk, Numeric, Netcdf, OpenDAP, etc.,).

- Running express installation:
  - Make a directory to put your installation in:
    ```
    $ mkdir /usr/local/cdat-4.0
    ```

  - Then run the express install command:
    ```
    $ ./express_install /usr/local/cdat-4.0
    ```

PATH and PYTHONPATH

If you have other python (or CDAT) installations you may need to set your environment variables PATH and PYTHONPATH:

```
$ PATH=$PATH:<your_cdat>/bin
          # for executables


$ PYTHONPATH=$PYTHONPATH:<your_cdat>/lib
  # for modules, packages and
      python extension modules
```

You can then run using '**cdat**' or '**vcdat**' or '**python**'.

Note on Fortran Compilers

- Optionally some contributed Packages will require a FORTRAN compiler, while the GNU-FORTRAN 77 will do others can be used, users should check the Pyfort web-site to make sure their Fortran Compiler is supported.